

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/553,694  
Source: IFW0  
Date Processed by STIC: 08/14/2006

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 08/14/2006

PATENT APPLICATION: US/10/553,694

TIME: 14:48:53

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\08142006\J553694.raw

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3 <110> APPLICANT: SEKISUI CHEMICAL CO., LTD.
5 <120> TITLE OF INVENTION: IMMUNOGEN, COMPOSITION FOR IMMUNOLOGICAL USE, AND METHOD OF
PRODUCING
6     ANTIBODY USING THE SAME
8 <130> FILE REFERENCE: P0001632
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/553,694
C--> 10 <141> CURRENT FILING DATE: 2005-10-18
10 <150> PRIOR APPLICATION NUMBER: JP2003-114503
11 <151> PRIOR FILING DATE: 2003-04-18
13 <160> NUMBER OF SEQ ID NOS: 20
15 <170> SOFTWARE: PatentIn version 3.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 1647
19 <212> TYPE: DNA
20 <213> ORGANISM: Escherichia coli
22 <400> SEQUENCE: 1
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25 aacgtactgg cagatgcagt gaaagttacc ctcggtccaa aaggccgtaa cgtagttctg      120
27 gataaatctt tcggtgcacc gaccatcacc aaagatggtg ttccggttgc tcgtgaaatc      180
29 gaactggaag acaagttcga aaatatgggt gcgcagatgg tgaaagaagt tgcctctaaa      240
31 gcaaacgacg ctgcaggcga cggtagccac actgcaaccg tactggctca ggctatcatc      300
33 actgaaggtc tgaaagctgt tgctgcgggc atgaaccgga tggacctgaa acgtgggtatc      360
35 gacaaagcgg ttaccgctgc agttgaagaa ctgaaagcgc tgtccgtacc atgctctgac      420
37 tctaaagcga ttgctcaggt tggtagcatc tccgctaact ccgacgaaac cgtaggtaaa      480
39 ctgatcgctg aagcgatgga caaagtcggt aaagaaggcg ttatcacctg tgaagacggt      540
41 accggtctgc aggacgaact ggacgtgggt gaaggtatgc agttcgaccg tggctacctg      600
43 tctccttact tcatcaacaa gccggaaact ggcgcagtag aactggaaag cccgttcacg      660
45 ctgctggctg acaagaaaat ctccaacatc cgcgaaatgc tgccggttct ggaagctggt      720
47 gccaaagcag gcaaaccgct gctgatcatc gctgaagatg tagaaggcga agcgctggca      780
49 actgctgttg ttaacaccat tcgtggcatc gtgaaagtcg ctgcggttaa agcaccgggc      840
51 ttcggcgatc gtcgtaaagc tatgctgcag gatatcgcaa ccctgactgg cggtagcgtg      900
53 atctctgaag agatcggtat ggagctggaa aaagcaaccc tgggaagacct gggtcaggct      960
55 aaacgtgttg tgatcaacaa agacaccacc actatcatcg atggcgtggg tgaagaagct      1020
57 gcaatccagg gccgtgttgc tcagatccgt cagcagattg aagaagcaac ttctgactac      1080
59 gaccgtgaaa aactgcagga acgcgtagcg aaactggcag gcggcggttg agttatcaaa      1140
61 gtgggtgctg ctaccgaagt tgaaatgaaa gagaaaaaag caccggttga agatgccttg      1200
63 caccgcaccc gtgctgcggg agaagaaggc gtgggtgctg gtgggtggtg tgcgctgacg      1260
65 cgcgtagcgt ctaaaactggc tgacctgcgt ggtcagaacg aagaccagaa cgtgggtatc      1320
67 aaagtgcac tgcgtgcaat ggaagctccg ctgcgtcaga tcgtattgaa ctgcggcgaa      1380
69 gaaccgtctg ttggtgctaa caccgttaaa ggcggcgacg gcaactacgg ttacaacgca      1440
71 gcaaccgaag aatacggaac catgatcgac atgggtatcc tggatccaac caaagtaact      1500
73 cgttctgctc tgcagtagcg agcttctgtg gctggcctga tgatcaccac cgaatgcatg      1560
75 gttaccgacc tgccgaaaaa cgatgcagct gacttaggcg ctgctggcgg tatgggcggc      1620
77 atgggtggca tgggcggcat gatgtaa

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80 <210> SEQ ID NO: 2
81 <211> LENGTH: 42
82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
88 <400> SEQUENCE: 2
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92 <210> SEQ ID NO: 3
93 <211> LENGTH: 44
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
100 <400> SEQUENCE: 3
101 agcctctaga catcatgccg ccgatgccac ccatgccgcc cata          44
104 <210> SEQ ID NO: 4
105 <211> LENGTH: 40
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Designed oligonucleotide linker
112 <400> SEQUENCE: 4
113 ggtctagatg gaagttctgt tccaggggtcc ggagatctcc          40
116 <210> SEQ ID NO: 5
117 <211> LENGTH: 40
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Designed oligonucleotide linker
124 <400> SEQUENCE: 5
125 ggagatctcc ggaccctgga acagaacttc catctagacc          40
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129 <211> LENGTH: 1266
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 6
134 atggatgtgc tcagccctgg tcagggcaac aacaccacat caccaccggc tccctttgag          60
136 accggcggca acactactgg tatctccgac gtgaccgtca gctaccaagt gatcacctct          120
138 ctgctgctgg gcacgctcat cttctgcgcg gtgctgggca atgctgtcgt ggtggctgcc          180
140 atgccttgag agcgctccct gcagaacgtg gccaatatc ttattggctc tttggcggtc          240
142 accgacctca tgggtgtcggg gttgggtgctg cccatggccg cgtgtatca ggtgctcaac          300
144 aagtggacac tggggccagg aacctgcgac ctgttcacgc cctcgcagct gctgtgctgc          360
146 acctcatcca tcttgacact gtgcgccatc gcgctggaca ggtactgggc catcacggac          420
148 cccatcgact acgtgaacaa gaggacgccc cggccgcgtg cgctcatctc gctcacttgg          480
150 cttattggct tcctcatctc tatcccgccc atcctgggct ggcgcacccc ggaagaccgc          540
152 tcggaccccg acgcatgcac cattagcaag gatcatggct acactatcta ttccaccttt          600
154 ggagctttct acatcccgtc gctgctcatg ctggttctct atgggcgcac attccgagct          660
156 gcgcgcttcc gcatccgcaa gacgggtcaaa aagggtggaga agaccggagc ggacacccgc          720

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158 catggagcat ctcccccccc gcagcccaag aagagtgtga atggagagtc ggggagcagg      780
160 aactggaggc tgggcgtgga gagcaaggct gggggtgctc tgtgcgcaa tggcgcggtg      840
162 aggcaagggtg acgatggcgc cgccctggag gtgatcgagg tgcaccgagt gggcaactcc      900
164 aaagagcact tgcctctgcc cagcgaggct ggtcctaccc cttgtgcccc cgctcttttc      960
166 gagaggaaaa atgagcgcaa cgccgaggcg aagcgcaaga tggccctggc ccgagagagg     1020
168 aagacagtga agacgctggg catcatcatg ggcaccttca tcctctgctg gctgcccttc     1080
170 ttcacgtgtg ctcttgttct gcccttctgc gagagcagct gccacatgcc caccctgttg     1140
172 ggcgccataa tcaattggct gggctactcc aactctctgc ttaaccccggt catttacgca     1200
174 tacttcaaca aggactttca aaacgcgttt aagaagatca ttaagtgtaa cttctgccgc     1260
176 cagtga                                           1266

179 <210> SEQ ID NO: 7
180 <211> LENGTH: 29
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
187 <400> SEQUENCE: 7
188 agccagatct atggatgtgc tcagccctg                                           29
191 <210> SEQ ID NO: 8
192 <211> LENGTH: 29
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
199 <400> SEQUENCE: 8
200 agccctcgag ctggcggcag aagttacac                                           29
203 <210> SEQ ID NO: 9
204 <211> LENGTH: 1641
205 <212> TYPE: DNA
206 <213> ORGANISM: Thermococcus sp. KS-1
208 <400> SEQUENCE: 9
209 atggcccagc ttgcaggcca gccagttggt attctacctg agggaaactca gaggtacgtt      60
211 ggaaggggacg cccagaggct caacattctt gctgccagga ttatagccga gacgggttaga     120
213 accacccttg gaccaaaggg aatggacaag atgctcgttg acagcctcgg cgacatcgtc     180
215 atcaccaacg acggtgcaac cattctcgac gagatggaca tccagcaccg tgctgctaag     240
217 atgatggttg aggttgctaa gactcaggat aaggaggctg gtgatggtag tactactgcg     300
219 gttgttattg ctggtgagct tctgaggaag gctgaggagc ttctcgacca gaacattcac     360
221 ccgagcataa tcatcaaggg ctacgccctc gcagcagaga aagcccagga aatactcgac     420
223 gagatagcca aggacgttga cgtcgaggac agggagattc tcaagaaggc cgcggtcacc     480
225 tccatcaccg gaaaggccgc cgaggaggag agggagtacc tcgctgagat agcagttgag     540
227 gccgtcaagc aggttgccga gaaggttggc gagacctaca aggtcgacct cgacaacatc     600
229 aagttcgaga agaaggaagg tggaaagcgtc aaggacaccc agctcataaa ggggtgtcgtc     660
231 atcgacaagg aggtcgtcca cccaggcatg ccgaagaggg tcgagggtgc taagatcgcc     720
233 ctcatcaacg aggcccttga ggtcaaggag actgagaccg acgccgagat caggatcacc     780
235 agcccggagc agctccaggc cttccttgag caggaggaga agatgctcag ggagatggtc     840
237 gacaagatca agtaggtcgg cggaacgtgc gtgttcgtcc agaagggcac tgacgacctt     900
239 gcccagcact acctggccaa gtacggcata atggcagtcg ggagggtcaa gaagagcgac     960
241 atggagaagc tcgccaaagg cactggagct aagatcgcca ccaacgtccg cgacctcacc     1020
243 ccggaggacc tcggtgaggg cgagctcgtc gagcagagga aggtcgccgg cgagaacatg     1080

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245 atcttcgctcg agggctgcaa gaacccgaag gcagtgacaa tactcatcag gggcgggtacc 1140
247 gagcacgctcg ttgacgaggt cgagagggcc ctcgaggatg ccgtcaaggt cgtcaaggac 1200
249 atcgtcgagg acggcaagat cgtcgccgcc ggcggtgctc cggagatcga gctcagcatc 1260
251 aggctcgacg agtacgcgaa ggaggtcggc ggcaaggagc agctcgccat cgaggccttt 1320
253 gcagaggccc tcaaggtcat tccgaggacc ctcgccgaga acgccgggtct cgacccgatc 1380
255 gagaccctcg ttaaggtcat cgccgccac aaggagaagg gaccgaccat cgggtgttgac 1440
257 gtcttcgagg gcgagccggc cgacatgctc gagcgcggcg tcatcgcccc ggtcagggtt 1500
259 ccgaagcagg ccatcaagag cgccagcgag gccgccataa tgatcctcag gatcgacgac 1560
261 gtcatcgccg ccagcaagct cgagaaggac aaggagggcg gcaagggcgg tagcgaggac 1620
263 ttcggaagcg atctcgactg a 1641
266 <210> SEQ ID NO: 10
267 <211> LENGTH: 35
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
274 <400> SEQUENCE: 10
275 ggagatctgc ccagcttgca ggccagccag ttgtt 35
278 <210> SEQ ID NO: 11
279 <211> LENGTH: 35
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
286 <400> SEQUENCE: 11
287 ccgatccga cgagatcgct tccgaagtcc tcgct 35
290 <210> SEQ ID NO: 12
291 <211> LENGTH: 76
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Designed oligonucleotide linker
298 <400> SEQUENCE: 12
299 ggcataatggg atccctgggt ccgctgggct caagatctct cgagcatcgc catcgccatc 60
301 gctaataagga attccc 76
304 <210> SEQ ID NO: 13
305 <211> LENGTH: 76
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Designed oligonucleotide linker
312 <400> SEQUENCE: 13
313 ggggaattcct attagcatg gcgatggcga tgctcgagag atcttgagcc acgcggaacc 60
315 agggatccca tatgcc 76
318 <210> SEQ ID NO: 14
319 <211> LENGTH: 480
320 <212> TYPE: DNA
321 <213> ORGANISM: Thermococcus sp. KS-1
323 <400> SEQUENCE: 14

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324 atgaaagttg aagctggtga ttatgttctc ttccactacg ttggaagggt cgaggatgga      60
326 gaagtttttg acacaagcta cgaggagata gccagagaga atggcattct cgtcgaggag      120
328 agggagtacg gcccaatgtg ggtcaggata ggcgtcgggt agatcatccc tggcctcgat      180
330 gaagccataa ttggcatgga agctggagag aagaagaccg tgaccgttcc ccccgagaag      240
332 gcttacggaa tgccgaaccc agagcttgta atctccgttc caagggaaga attcaciaag      300
334 gccggccttg aaccccagga aggtctctac gtcatgaccg attctggcat agccaagata      360
336 gtttccggtg gagagagcga ggtatccctt gacttcaacc acccgctagc aggtaagacc      420
338 ctagtctttg aggtagaagt catagaagta aaaaaggccg aagaggactc agaagcttag      480
341 <210> SEQ ID NO: 15
342 <211> LENGTH: 28
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial
346 <220> FEATURE:
347 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
349 <400> SEQUENCE: 15
350 ggccatggga aaagttgaag ctggtgat      28
353 <210> SEQ ID NO: 16
354 <211> LENGTH: 26
355 <212> TYPE: DNA
356 <213> ORGANISM: Artificial
358 <220> FEATURE:
359 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
361 <400> SEQUENCE: 16
362 ccactagtag cttctgagtc ctcttc      26
365 <210> SEQ ID NO: 17
366 <211> LENGTH: 40
367 <212> TYPE: DNA
368 <213> ORGANISM: Artificial
370 <220> FEATURE:
371 <223> OTHER INFORMATION: Designed oligonucleotide linker
373 <400> SEQUENCE: 17
374 ggactagtct ggttccgcgt ggatcccata tggaatccgg      40
377 <210> SEQ ID NO: 18
378 <211> LENGTH: 40
379 <212> TYPE: DNA
380 <213> ORGANISM: Artificial
382 <220> FEATURE:
383 <223> OTHER INFORMATION: Designed olligonucleotide linker
385 <400> SEQUENCE: 18
386 ccgattcca tatgggatcc acgcggaacc agactagtcc      40
389 <210> SEQ ID NO: 19
390 <211> LENGTH: 24
391 <212> TYPE: DNA
392 <213> ORGANISM: Artificial
394 <220> FEATURE:
395 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
397 <400> SEQUENCE: 19
398 ggcataatgga tgtgctcage cctg      24
401 <210> SEQ ID NO: 20

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RAW SEQUENCE LISTING ERROR SUMMARY  
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:2,3,4,5,7,8,10,11,12,13,15,16,17,18,19,20

**VERIFICATION SUMMARY**

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**Input Set : A:\PTO.RJ.txt**

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date